

## TECHNICAL DATA SHEET

### CyFlow™ CD70 PE Anti-Hu; Clone Ki-24

**REF** BJ865406

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	CD70
<b>Alternative Names</b>	Ki-24, CD27L, TNFSF7
<b>Clone</b>	Ki-24
<b>Clonality</b>	monoclonal
<b>Format</b>	PE
<b>Host / Isotype</b>	Mouse / IgG3
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity</b>	100 tests
<b>Immunogen</b>	< no data >

### Specificity

The mouse monoclonal antibody Ki-24 recognizes CD70 antigen, a 50 kDa type II transmembrane glycoprotein expressed on activated lymphocytes and some B cell leukemias.

#### Contact Information:

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## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

CD70 (TNFSF7, CD27L) is a 50 kDa type II transmembrane glycoprotein of the TNF superfamily. It is expressed mainly on activated lymphocytes, including NK cells, and forms trimeric structure. CD70 plays a role in T-cell activation, proliferation and differentiation, in enhancing the generation of cytolytic T cells, and in long-term maintenance of T cell memory. It is also involved in B cell differentiation induced by activated plasmacytoid dendritic cells, which also express CD70.

## References

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- Kaufmann Y, Amariglio N, Rosenthal E, Hirsch YJ, Many A, Rechavi G: Proliferation response of leukemic cells to CD70 ligation oscillates with recurrent remission and relapse in a low-grade lymphoma. J Immunol. 2005 Nov 15; 175(10):6940-7. < PMID: 16272354 >
- Kaufmann Y, Amariglio N, Rosenthal E, Hirsch YJ, Many A, Rechavi G: Proliferation response of leukemic cells to CD70 ligation oscillates with recurrent remission and relapse in a low-grade lymphoma. J Immunol. 2005 Nov 15; 175(10):6940-7. < PMID: 16272354 >
- Hashimoto-Okada M, Kitawaki T, Kadowaki N, Iwata S, Morimoto C, Hori T, Uchiyama T: The CD70-CD27 interaction during the stimulation with dendritic cells promotes naive CD4(+) T cells to

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develop into T cells producing a broad array of immunostimulatory cytokines in humans. Int Immunol. 2009 Aug; 21(8):891-904. < PMID: 19556308 >

- Trebing J, El-Mesery M, Schäfer V, Weisenberger D, Siegmund D, Silence K, Wajant H: CD70-restricted specific activation of TRAILR1 or TRAILR2 using scFv-targeted TRAIL mutants. Cell Death Dis. 2014 Jan 30; 5:e1035. < PMID: 24481449 >

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The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

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